

2,3,4-TRICHLORO-1-BUTENE

Inchi:	InChI=1S/C4H5Cl3/c1-3(6)4(7)2-5/h4H,1-2H2
InchiKey:	WZUZDBPJFHQVJC-UHFFFAOYSA-N
Formula:	C4H5Cl3
SMILES:	C=C(Cl)C(Cl)CCl
Mol. weight [g/mol]:	159.44
CAS:	2431-50-7

Physical Properties

Property code	Value	Unit	Source
hfus	12.59	kJ/mol	Joback Method
logp	2.585		Crippen Method
mcvol	99.640	ml/mol	McGowan Method
tf	259.33	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.34	J/mol×K	399.33	Joback Method
cpg	156.00	J/mol×K	433.22	Joback Method
cpg	162.27	J/mol×K	467.11	Joback Method
cpg	168.14	J/mol×K	501.00	Joback Method
cpg	173.65	J/mol×K	534.90	Joback Method
cpg	178.81	J/mol×K	568.79	Joback Method
cpg	183.64	J/mol×K	602.68	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	6.61929e+02

Coeff. B	-3.22086e+04
Coeff. C	-9.89376e+01
Coeff. D	9.37238e-05
Temperature range (K), min.	303.15
Temperature range (K), max.	403.15

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
KDB Vapor Pressure Data:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1748
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pvap:	Vapor pressure
tf:	Normal melting (fusion) point

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